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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/619,565		07/16/2003	Kenichi Nagayama	US01-02090	US01-02090 7112	
21254	7590	02/09/2005		EXAMINER		
MCGINN 6		PLLC OUSE ROAD	CRANE, SARA W			
SUITE 200	JUUKIH	OUSE ROAD		ART UNIT PAPER NUMBER 2811		
VIENNA, V	/A 2218	2-3817				
				DATE MAILED: 02/09/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

			M
	Application No.	Applicant(s)	
	10/619,565	NAGAYAMA, KENICHI	
Office Action Summary	Examiner	Art Unit	
	Sara W. Crane	2811	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	th the correspondence address	•
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state of the second patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a reply within the statutory minimum of thir iod will apply and will expire SIX (6) MON atute, cause the application to become AE	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communicat ANDONED (35 U.S.C. § 133).	ution.
Status			
1) Responsive to communication(s) filed on O	<u>5 November 2004</u> .		
,	This action is non-final.		
3) Since this application is in condition for allo			is is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D	i. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-26</u> is/are pending in the applicat			
4a) Of the above claim(s) 1-13 is/are withdr	awn from consideration.		
5) Claim(s) is/are allowed. 6) Claim(s) <u>14-26</u> is/are rejected.			
7) Claim(s) is/are objected to.	•		,
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers	•		
9) The specification is objected to by the Exam	niner.		
10) The drawing(s) filed on is/are: a) ☐ a			
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor			
11) ☐ The oath or declaration is objected to by the	Examiner. Note the attached	1 Office Action of form P1O-152	•
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	ents have been received. ents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	opplication No received in this National Stage	
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) s)/Mail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/SB Paper No(s)/Mail Date		nformal Patent Application (PTO-152)	

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DETAILED ACTION

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 14-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 14, it is not clear what is meant by the work function of the first metal of the alloy layer. Examiner understands "alloy," to mean a mixture of two or more metals rather than a layered or laminated set of distinct layers. How would one measure (or calculate) the work function of the first metal in a mixture? Is this the work function of the first metal, as determined by a homogeneous layer of the metal (a layer having only that material)? Or does one determine the work function of the alloy layer (or the mixture layer) and then somehow separate out some part of that work function and attribute that part of the work function to the first metal? In other words, in a mixture of, say, aluminum and gold, the work function of the mixture is not simply a sum of the work functions of pure aluminum and of pure gold, because the bond structure of the alloy differs from the bonding in pure aluminum and pure gold. So if the claim intends to specify a contribution of the first metal to the work function of the alloy layer, it is not clear how that work function would be determined. (The specification seems to imply that this is indeed the intention, but the usual meaning of the term work function would apply to the pure material, and the specification could simply be using the term to have its usual meaning.)

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The prior art cited on form PTO 892 teaches to match ionization potential of the electrode material to that of the organic conducting material.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sara W. Crane
Primary Examiner
Art Unit 2811